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(FILE 'HOME' ENTERED AT 17:35:12 ON 18 JUN 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 17:36:20 ON  
18 JUN 2007

L1 981 S (PROTONAT? OR ACIDIF?) (4A) (DNA OR CDNA OR POLYNUCLEOTIDE OR N  
L2 141353 S (WOUND OR BURN) (4A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A) SU  
L3 1 S L1 AND L2  
L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A) SU  
L5 1 S L1 AND L4

=> d bib ab 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2003:769059 CAPLUS  
DN 139:297061  
TI Devices with protonated nucleic acids for  
improved wound management  
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy  
PA Oligos Etc. Inc., USA  
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.  
CODEN: USXXAM

DT Patent  
LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6627215	B1	20030930	US 1999-281858	19990331
	US 6211349	B1	20010403	US 1998-222009	19981230
	AT 328893	T	20060615	AT 1999-966301	19991215
	US 2002032164	A1	20020314	US 2001-847654	20010503
	US 2005025815	A1	20050203	US 2003-644969	20030821
	US 2005107344	A1	20050519	US 2004-937094	20040908
	US 7176191	B2	20070213		
	US 2007053971	A1	20070308	US 2006-552951	20061025
PRAI	US 1998-222009	A2	19981230		
	US 1999-281858	A2	19990331		
	US 2001-847654	B1	20010503		
	US 2004-937094	A2	20040908		

AB The present invention provides devices and compns. for the management of  
infection of topical lesions, each of the devices and compns. containing  
protonated/acidified nucleic acids  
either on its surface, or integrated into the device. These modified  
nucleic acids are effective as bactericidal and/or bacteriostatic agents  
without regard to the class of bacteria, so are especially useful when  
diagnosis

is difficult or when multiple infectious organisms are present. The  
antibiotic activity of nucleic acids of the invention is not dependent on  
either the specific sequence of the nucleic acid or the length of the  
nucleic acid mol. The nucleic acids used in the invention are  
protonated/acidified to give a pH when dissolved in water of less than pH  
7 to about 1, more preferably less than pH 4.5 to about 1, and even more  
preferably less than pH 2 to about 1. For example, a 10% solution of  
protonated/acidified monomer di-Bu diphosphate 2'-O-methyluridine was  
prepared, coated on a size 2/0 Mersilene PET braided multifilament suture,  
and dried in air at elevated temperature to remove the solvent.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 1 S L1 AND L2  
L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A) SU  
L5 1 S L1 AND L4  
L6 791651 S ULCER OR WOUND OR BURN OR BITES  
L7 8 S L1 AND L6  
L8 3 DUP REM L7 (5 DUPLICATES REMOVED)

=> d au ti so pi 1-3 18

L8 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1  
AU Dale Roderic M K; Schnell Glen; Wong Jonathan P  
TI Therapeutic efficacy of "nubiotics" against burn wound  
infection by *Pseudomonas aeruginosa*.  
SO Antimicrobial agents and chemotherapy, (2004 Aug) Vol. 48, No. 8, pp.  
2918-23.  
Journal code: 0315061. ISSN: 0066-4804.

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2  
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy  
TI Devices with protonated nucleic acids for  
improved wound management  
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.  
CODEN: USXXAM

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6627215	B1	20030930	US 1999-281858	19990331
	US 6211349	B1	20010403	US 1998-222009	19981230
	AT 328893	T	20060615	AT 1999-966301	19991215
	US 2002032164	A1	20020314	US 2001-847654	20010503
	US 2005025815	A1	20050203	US 2003-644969	20030821
	US 2005107344	A1	20050519	US 2004-937094	20040908
	US 7176191	B2	20070213		
	US 2007053971	A1	20070308	US 2006-552951	20061025

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN  
IN Dale, Roderic M. K.; Arrow, Amy; Gatton, Steven L.; Thompson, Terry  
TI Protonated/acidified nucleic acids  
and uses thereof in treatment of diseases caused by bacterial pathogens  
SO PCT Int. Appl., 42 pp.  
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000040591	A1	20000713	WO 1999-US29843	19991215
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6211349	B1	20010403	US 1998-222009	19981230
	CA 2358570	A1	20000713	CA 1999-2358570	19991215
	EP 1140965	A1	20011010	EP 1999-966301	19991215
	EP 1140965	B1	20060607		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, CY  
JP 2002534433 T 20021015 JP 2000-592299 19991215  
AT 328893 T 20060615 AT 1999-966301 19991215  
AU 2004226974 A1 20041202 AU 2004-226974 20041104

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L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A) SU  
L5 1 S L1 AND L4  
L6 791651 S ULCER OR WOUND OR BURN OR BITES  
L7 8 S L1 AND L6  
L8 3 DUP REM L7 (5 DUPLICATES REMOVED)  
L9 344388 S ANTIBACTERIAL  
L10 11 S L1(P)L9  
L11 6 DUP REM L10 (5 DUPLICATES REMOVED)  
L12 12 S L1 AND L9  
L13 7 DUP REM L12 (5 DUPLICATES REMOVED)

=> d au ti so pi 1-7 113

L13 ANSWER 1 OF 7 MEDLINE on STN DUPLICATE 1  
AU Dale Roderic M K; Schnell Glen; Wong Jonathan P  
TI Therapeutic efficacy of "nubiotics" against burn wound infection by  
Pseudomonas aeruginosa.  
SO Antimicrobial agents and chemotherapy, (2004 Aug) Vol. 48, No. 8, pp.  
2918-23.  
Journal code: 0315061. ISSN: 0066-4804.

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy  
TI Devices with protonated nucleic acids for  
improved wound management  
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.  
CODEN: USXXAM

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6627215	B1	20030930	US 1999-281858	19990331
	US 6211349	B1	20010403	US 1998-222009	19981230
	AT 328893	T	20060615	AT 1999-966301	19991215
	US 2002032164	A1	20020314	US 2001-847654	20010503
	US 2005025815	A1	20050203	US 2003-644969	20030821
	US 2005107344	A1	20050519	US 2004-937094	20040908
	US 7176191	B2	20070213		
	US 2007053971	A1	20070308	US 2006-552951	20061025

L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
AU Kichler, Antoine; Leborgne, Christian; Marz, Josefine; Danos, Olivier;  
Bechinger, Burkhard  
TI Histidine-rich amphipathic peptide antibiotics promote efficient delivery  
of DNA into mammalian cells  
SO Proceedings of the National Academy of Sciences of the United States of  
America (2003), 100(4), 1564-1568  
CODEN: PNASA6; ISSN: 0027-8424

L13 ANSWER 4 OF 7 CAPLUS. COPYRIGHT 2007 ACS on STN DUPLICATE 2  
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy  
TI Pulmonary delivery of protonated/acidified  
nucleic acids  
SO U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 222,009.  
CODEN: USXXAM

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6211162	B1	20010403	US 1999-282824	19990331
	US 6211349	B1	20010403	US 1998-222009	19981230
	AT 328893	T	20060615	AT 1999-966301	19991215

WO 2000057890	A1	20001005	WO 2000-US8244	20000328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1169046	A1	20020109	EP 2000-921487	20000328
EP 1169046	B1	20030827		
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JP 2002540160	T	20021126	JP 2000-607640	20000328
AT 247972	T	20030915	AT 2000-921487	20000328
AU 781560	B2	20050602	AU 2000-41796	20000328

L13 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 AU Dale, Roderic M. K. [Inventor]; Arrow, Amy [Inventor]; Gatton, Steven L. [Inventor]; Thompson, Terry [Inventor, Reprint author]  
 TI Protonated/acidified nucleic acids and methods of use.  
 SO Official Gazette of the United States Patent and Trademark Office Patents, (Apr. 3, 2001) Vol. 1245, No. 1. e-file.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 PI US 6211349 20010403

L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy  
 TI Pulmonary delivery of protonated/acidified nucleic acids  
 SO PCT Int. Appl., 51 pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000057890	A1	20001005	WO 2000-US8244	20000328
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6211162	B1	20010403	US 1999-282824	19990331
EP 1169046	A1	20020109	EP 2000-921487	20000328
EP 1169046	B1	20030827		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002540160	T	20021126	JP 2000-607640	20000328
AT 247972	T	20030915	AT 2000-921487	20000328
AU 781560	B2	20050602	AU 2000-41796	20000328

L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN  
 IN Dale, Roderic M. K.; Arrow, Amy; Gatton, Steven L.; Thompson, Terry  
 TI Protonated/acidified nucleic acids and uses thereof in treatment of diseases caused by bacterial pathogens  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI WO 2000040591	A1	20000713	WO 1999-US29843	19991215
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				

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CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 6211349 B1 20010403 US 1998-222009 19981230  
CA 2358570 A1 20000713 CA 1999-2358570 19991215  
EP 1140965 A1 20011010 EP 1999-966301 19991215  
EP 1140965 B1 20060607  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, CY  
JP 2002534433 T 20021015 JP 2000-592299 19991215  
AT 328893 T 20060615 AT 1999-966301 19991215  
AU 2004226974 A1 20041202 AU 2004-226974 20041104

## Freeform Search

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<b>Database:</b>	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database <b>US OCR Full-Text Database</b> EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins				
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### Search History

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**DATE:** Monday, June 18, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set	Name	Query	Hit	Set
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side by side				result set
DB=PGPB,USPT; PLUR=YES; OP=AND				
<u>L5</u>	l1 with L4		11	<u>L5</u>
<u>L4</u>	wound or burn or ulcer or bites		577698	<u>L4</u>
<u>L3</u>	l1 and L2		7	<u>L3</u>
<u>L2</u>	(wound or burn or bites or ulcer) near5 (heal\$ or dress\$ or closure) or skin near3 substitue		40563	<u>L2</u>
<u>L1</u>	(protonat\$ or acidif\$) near6 (dna or cdna or polynucleotide or nucleic adj acid)		306	<u>L1</u>

END OF SEARCH HISTORY

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1. [20070111221](#). 17 Mar 06. 17 May 07. Method of preparation for pharmaceutical grade plasmid DNA. Blanche; Francis, et al. 435/6; 435/287.1 435/317.1 C12M3/00 20060101 C12N1/00 20060101 C12Q1/68 20060101

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2. [20070066552](#). 20 Jan 06. 22 Mar 07. Topical administration permitting prolonged exposure of target cells to therapeutic and prophylactic nucleic acids. Clarke; Peter, et al. 514/44; 424/440 424/48 A61K48/00 20060101 A61K9/68 20060101

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3. [20050025815](#). 21 Aug 03. 03 Feb 05. Devices for improved wound management. Dale, Roderic M.K., et al. 424/445; 514/44 514/47 514/49 A61K048/00 A61K009/70.

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4. [20020156025](#). 04 Dec 01. 24 Oct 02. Inhibition of vacuolar proton ATPase activity and/or the modulation of acidic organelle function sensitizes cells to radiation, chemotherapy and biological agents. Paglin, Shoshana, et al. 514/28; 600/1 A61K031/7048 A61N005/00.

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5. [6982252](#). 04 Dec 01; 03 Jan 06. Inhibition of vacuolar proton ATPase activity and/or the modulation of acidic organelle function sensitizes cells to radiation, chemotherapy and biological agents. Paglin; Shoshana, et al. 514/28; 424/138.1 424/9.2 514/450. A01N43/02 20060101 A01N43/04 20060101 A61K31/335 20060101 A61K31/70 20060101 .

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6. [6627215](#). 31 Mar 99; 30 Sep 03. Devices for improved wound management. Dale; Roderic M. K., et al. 424/443; 424/445 424/447 424/484 514/44 536/23.1 602/48 606/228. A61F013/00 A61L015/16 A61K009/14 C07H021/02 A61B017/04 .

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7. [5212235](#). 27 Dec 90; 18 May 93. Hydrophobically modified proteins. Nestaas; Eirik, et al. 525/54.1; 530/343 530/354 530/356. C07K001/12 C08H001/06 .

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Terms	Documents
L1 and L2	7

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**Search Results - Record(s) 1 through 11 of 11 returned.**

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2. 20050147991. 05 Oct 04. 07 Jul 05. Enzymatic template polymerization. Samuelson, Lynne A., et al. 435/6; 435/91.2 525/54.2 C12Q001/68 C12P019/34.

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3. 20050147990. 05 Oct 04. 07 Jul 05. Enzymatic template polymerization. Samuelson, Lynne A., et al. 435/6; 435/91.2 525/54.2 C12Q001/68 C12P019/34.

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6. 20050079533. 05 Oct 04. 14 Apr 05. Enzymatic template polymerization. Samuelson, Lynne A., et al. 435/6; 525/54.2 C12Q001/68 C08G063/48.

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7. 20050025815. 21 Aug 03. 03 Feb 05. Devices for improved wound management. Dale, Roderic M.K., et al. 424/445; 514/44 514/47 514/49 A61K048/00 A61K009/70.

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9. 7001996. 19 Dec 02; 21 Feb 06. Enzymatic template polymerization. Samuelson; Lynne A., et al. 536/23.1; 435/4. C07H21/02 20060101 C12Q1/68 20060101 .

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10. 6627215. 31 Mar 99; 30 Sep 03. Devices for improved wound management. Dale; Roderic M. K., et al. 424/443; 424/445 424/447 424/484 514/44 536/23.1 602/48 606/228. A61F013/00 A61L015/16 A61K009/14 C07H021/02 A61B017/04 .

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11. 6211349. 30 Dec 98; 03 Apr 01. Protonated/acidified nucleic acids and methods of use. Dale; Roderic M. K., et al. 536/23.1; 536/23.5 536/24.1 536/24.2 536/24.33 536/28.2. C07H021/02 C07H021/04 C07H019/00 .

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Terms	Documents
L1 with L4	11

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